

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/821,229
Filing Date: April 8, 2004
Applicant(s): Tara Ziolo et al.
Group Art Unit: 3733
Examiner: Steven J. Cotroneo
Title: BONE FIXATION DEVICE
Attorney Docket: 5490E-000365

Director of the United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

DECLARATION UNDER 37 C.F.R. § 1.131

Sir:

I hereby declare under penalty of perjury as follows:

1. That I am one of the inventors of the above-identified application.
2. That the invention was conceived and reduced to practice in this country prior to September 3, 2003—the filing date of United States Publication No. 2005/0049593 to Duong.

3. That the redacted engineering drawings of Exhibit A illustrate the various components of the subject invention that were produced by an in-house manufacturing facility of the assignee and shown to work for their intended purpose prior to September 3, 2003—the filing date of United States Publication No. 2005/0049593 to Duong.

4. That each of the redacted drawings of Exhibit A bears a date prior to September 3, 2003.

5. That the invention has never been abandoned, suppressed, or concealed.

6. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are being made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, and patent issuing thereon, or any patent to which this verified statement is directed.

Dated: 11/16/09



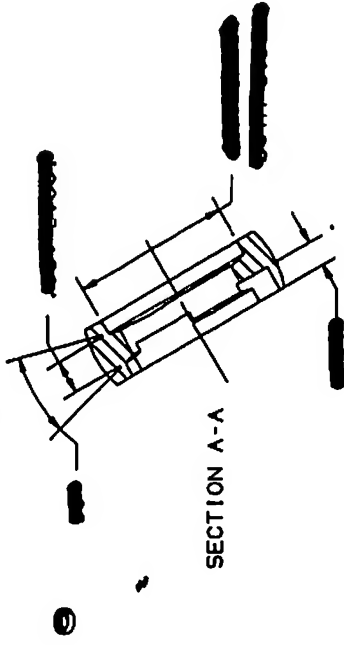
Rui Ferreira

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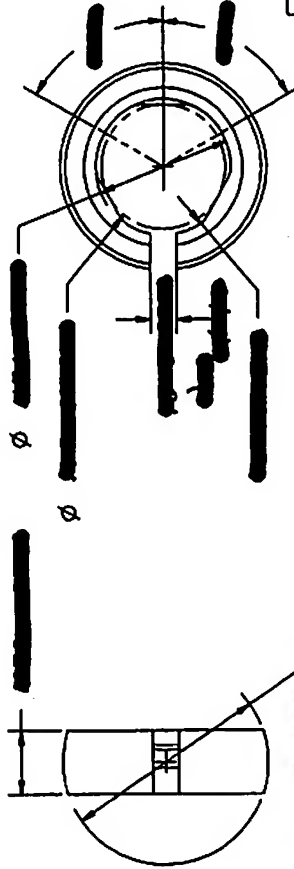
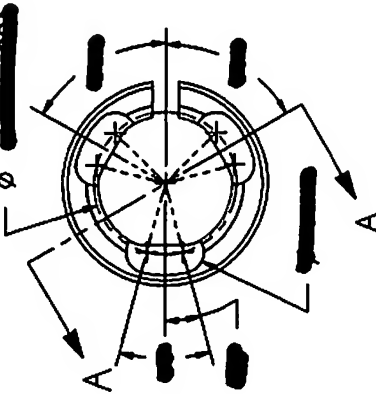
EXHIBIT A

REV	EN NO.	DDR/ECR No.	DESCRIPTION	DRAFT	DATE	APPROVED
A			INITIAL PROTOTYPE RELEASE	JTC		

SECTION A-A



MANUFACTURING



PART NO.
80-3753

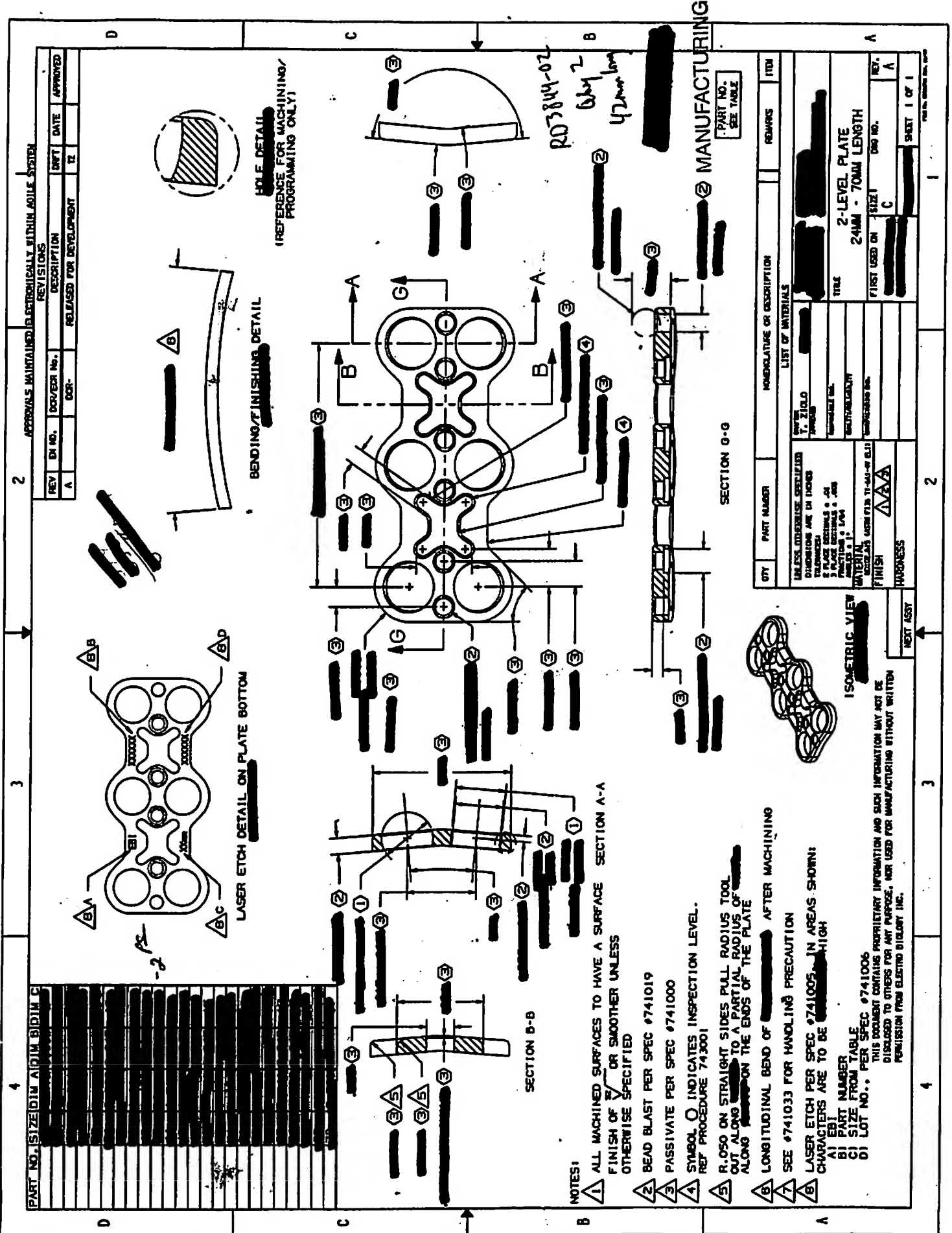
०५

- NOTES:
- 1 ALL MACHINED SURFACES TO HAVE A SURFACE FINISH OF $\sqrt{\text{ }}$ OR SMOOTHER UNLESS OTHERWISE SPECIFIED
- 2 BEAD BLAST PER SPEC #741019
- 3 PASSIVATE PER SPEC #741000

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QTY	PART NUMBER	NONDECLASSIFICATION OR DESCRIPTION	REMARKS	ITEM
LIST OF MATERIALS				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/64 ANGLES ± 1°		DRAFTER [REDACTED]	[REDACTED]	[REDACTED]
		APPROVED [REDACTED]	[REDACTED]	[REDACTED]
		RESPONSIBLE DGR. [REDACTED]	[REDACTED]	[REDACTED]
		QUALITY/RELIABILITY [REDACTED]	[REDACTED]	[REDACTED]
		MANUFACTURING DGR. [REDACTED]	[REDACTED]	[REDACTED]
MATERIAL T16A14V		TITLE TRI-CAM PROTOTYPE BUSHING		
FINISH 1 2 3		FIRST USED ON B	DRG NO. RD-3753	REV. A
HARDNESS [REDACTED]		USED ON PROJ NO [REDACTED]	[REDACTED]	SHEET 1 OF 1

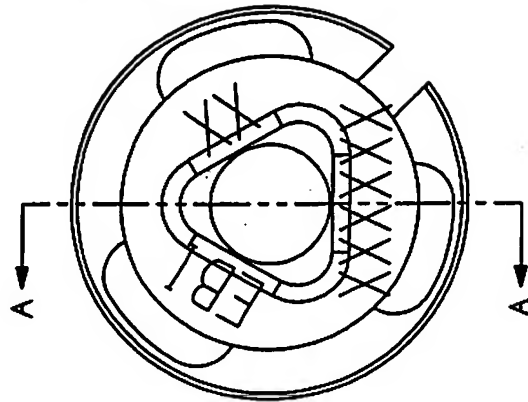
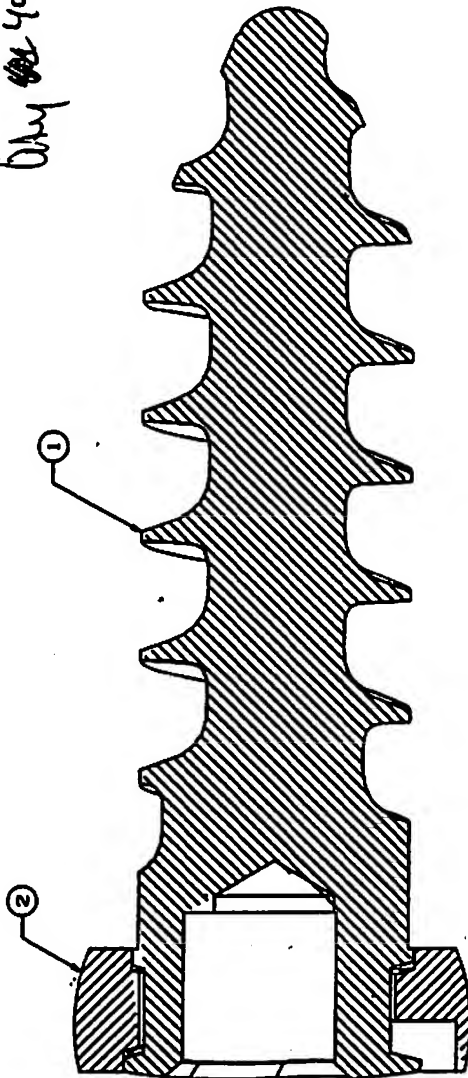
ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED



REVISIONS					
REV	CH NO.	CDR/CDR No.	DESCRIPTION	DATE	APPROVED
A		CDR-	RELEASED FOR DEVELOPMENT	12	

RD3844-03

Day ~~42~~ 44

PART NO. 3
PART 1

MANUFACTURING

1	XXXXX	CERVICAL SPHERE FOR SCREW	2
1	SEE TABLE	SELF-TAPPING 4.0MM CERVICAL SCREW	1
QTY	PART NUMBER	DESIGNATION OR DESCRIPTION	REMARKS
LIST OF MATERIALS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES 8 PLACE DECIMALS = .01 2 PLACE DECIMALS = .005 FINISHES: 1.000 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 18.000 19.000 20.000 21.000 22.000 23.000 24.000 25.000 26.000 27.000 28.000 29.000 30.000 31.000 32.000 33.000 34.000 35.000 36.000 37.000 38.000 39.000 40.000 41.000 42.000 43.000 44.000 45.000 46.000 47.000 48.000 49.000 50.000 51.000 52.000 53.000 54.000 55.000 56.000 57.000 58.000 59.000 60.000 61.000 62.000 63.000 64.000 65.000 66.000 67.000 68.000 69.000 70.000 71.000 72.000 73.000 74.000 75.000 76.000 77.000 78.000 79.000 80.000 81.000 82.000 83.000 84.000 85.000 86.000 87.000 88.000 89.000 90.000 91.000 92.000 93.000 94.000 95.000 96.000 97.000 98.000 99.000 100.000			
T. ZILIO APPROVED DATE: 11/11/01 MATERIALS 1.000 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000 17.000 18.000 19.000 20.000 21.000 22.000 23.000 24.000 25.000 26.000 27.000 28.000 29.000 30.000 31.000 32.000 33.000 34.000 35.000 36.000 37.000 38.000 39.000 40.000 41.000 42.000 43.000 44.000 45.000 46.000 47.000 48.000 49.000 50.000 51.000 52.000 53.000 54.000 55.000 56.000 57.000 58.000 59.000 60.000 61.000 62.000 63.000 64.000 65.000 66.000 67.000 68.000 69.000 70.000 71.000 72.000 73.000 74.000 75.000 76.000 77.000 78.000 79.000 80.000 81.000 82.000 83.000 84.000 85.000 86.000 87.000 88.000 89.000 90.000 91.000 92.000 93.000 94.000 95.000 96.000 97.000 98.000 99.000 100.000			
TITLE CERVICAL 4.0MM SCREW ASSY FIRST USED ON: 11/11/01 QWP NO.: A SHEET 1 OF 1			

NOTES:

- ① LASER ETCH PER SPEC #741005 PRIOR TO ASSEMBLY, IN AREAS SHOWN:
CHARACTERS ARE TO BE [REDACTED] REF HIGH
- A) "EB1"
B) LENGTH FROM TABLE
C) LOT NO., PER SPEC #741006
- ② SNAP ITEM 2 OVER ITEM 1. ROTATE TO RELAXED STATE.

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4

PART NO. SIZE LENGTH DIM A

TITANIUM ANODIZE AS PER EBI SPEC 080077.000 COLOR (LIGHT GREEN)

PASSIVATE PER EBI SPEC #741000

TITANIUM ANODIZE AS PER EBI SPEC 080077.000 COLOR (DARK BLUE)

TITANIUM ANODIZE AS PER EBI SPEC 080077.000 COLOR (LIGHT BLUE)

TITANIUM ANODIZE AS PER EBI SPEC 080077.000 COLOR (DARK MAGENTA)

TITANIUM ANODIZE AS PER EBI SPEC 080077.000 COLOR (BRONZE)

3

FINISH

2

APPROVALS MAINTAINED ELECTRONICALLY WITHIN AGILE SYSTEM

1

REVISIONS

REV	EN NO.	DESCRIPTION	DATE	APPROVED
A		RELEASED FOR DEVELOPMENT	TZ	

RO3844-04

QWY 644-44

SECTION A-A

THREAD DETAIL

ISOMETRIC VIEW

MANUFACTURING

NOTES:

- ALL MACHINED SURFACES TO HAVE A SURFACE FINISH OF \sqrt{V} OR SMOOTHER UNLESS OTHERWISE SPECIFIED
- BEAD BLAST PER SPEC #741019
- SYMBOL \bigcirc INDICATES INSPECTION LEVEL. REF PROCEDURE 743001
- INSPECT PARTS USING OVERLAY NUMBER WXXXXX
- SEE #741033 FOR HANDLING PRECAUTION
- VISUAL END OF THREAD RUNOUT
- REF DIMENSIONS FOR MACHINING AND PROGRAMMING ONLY
- DIMENSION TO THEORETICAL CORNER
- GEOMETRY SYM \bigcirc ON CENTERLINE

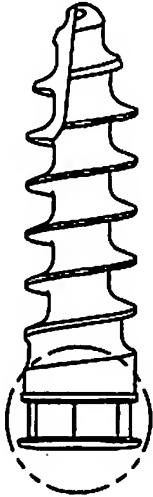
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RADIUS NO. [REDACTED] RADIUS X-CENTER Y-CENTER

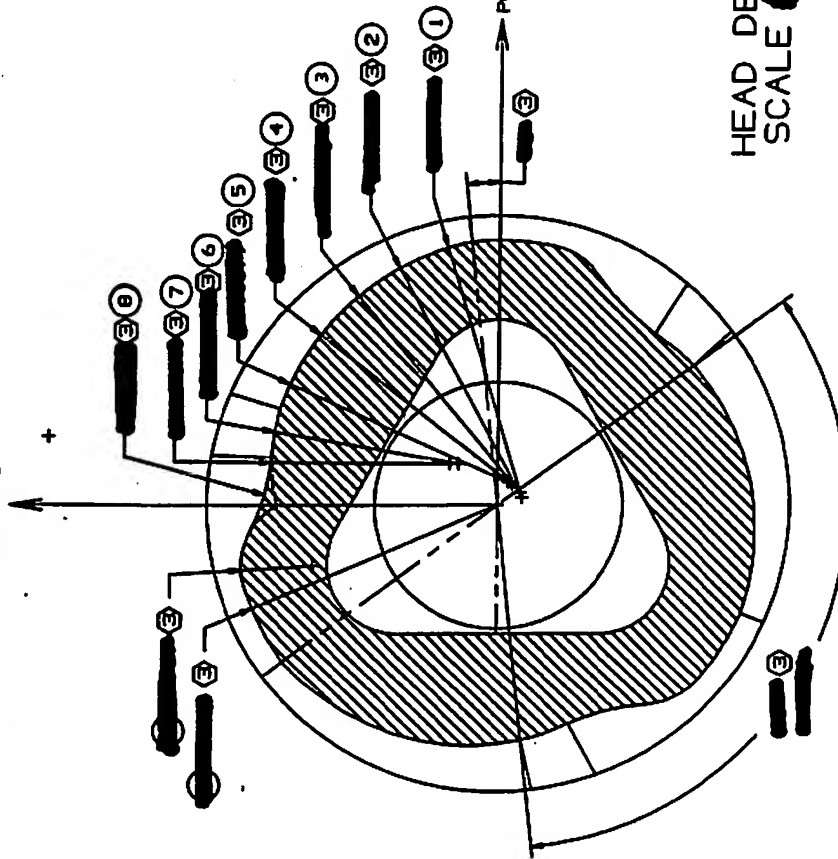
REVISIONS
SEE SHEET ONE

203844-04

Qty 12294



POSITIVE Y



SECTION D-D

HEAD DETAIL
SCALE [REDACTED]

NOTES:

- 1 CAM PROFILE IS DIMENSIONED FOR ONE OF THE THREE LOBES. LOBES ARE [REDACTED] APART.
- 2 CAM ORIENTED WITH RESPECT TO THE TRIANGLE DRIVE AS SHOWN.

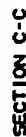
PART NO.
PART

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MANUFACTURING

SIZE	DWG NO.	REV.
C	[REDACTED]	A
SHEET 2 OF 2		

REV	CH NO.	DOC/ECR No.	DESCRIPTION	DRAFT	DATE	APPROVED
A		DOC-	RELEASED FOR DEVELOPMENT	12		



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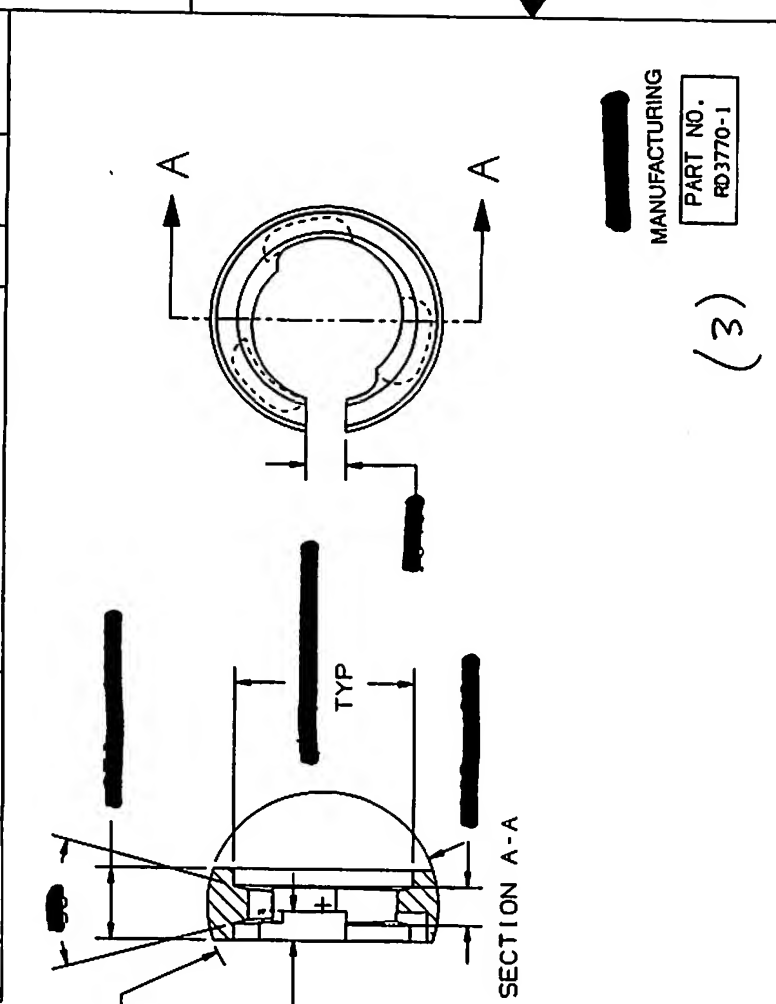


PART NO.

MANUFACTURING

[illegible]

REVISIONS				
REV	EN NO.	DCR/ECR No.	DESCRIPTION	DRFT
A			RELEASE FOR DEVELOPMENT	SW

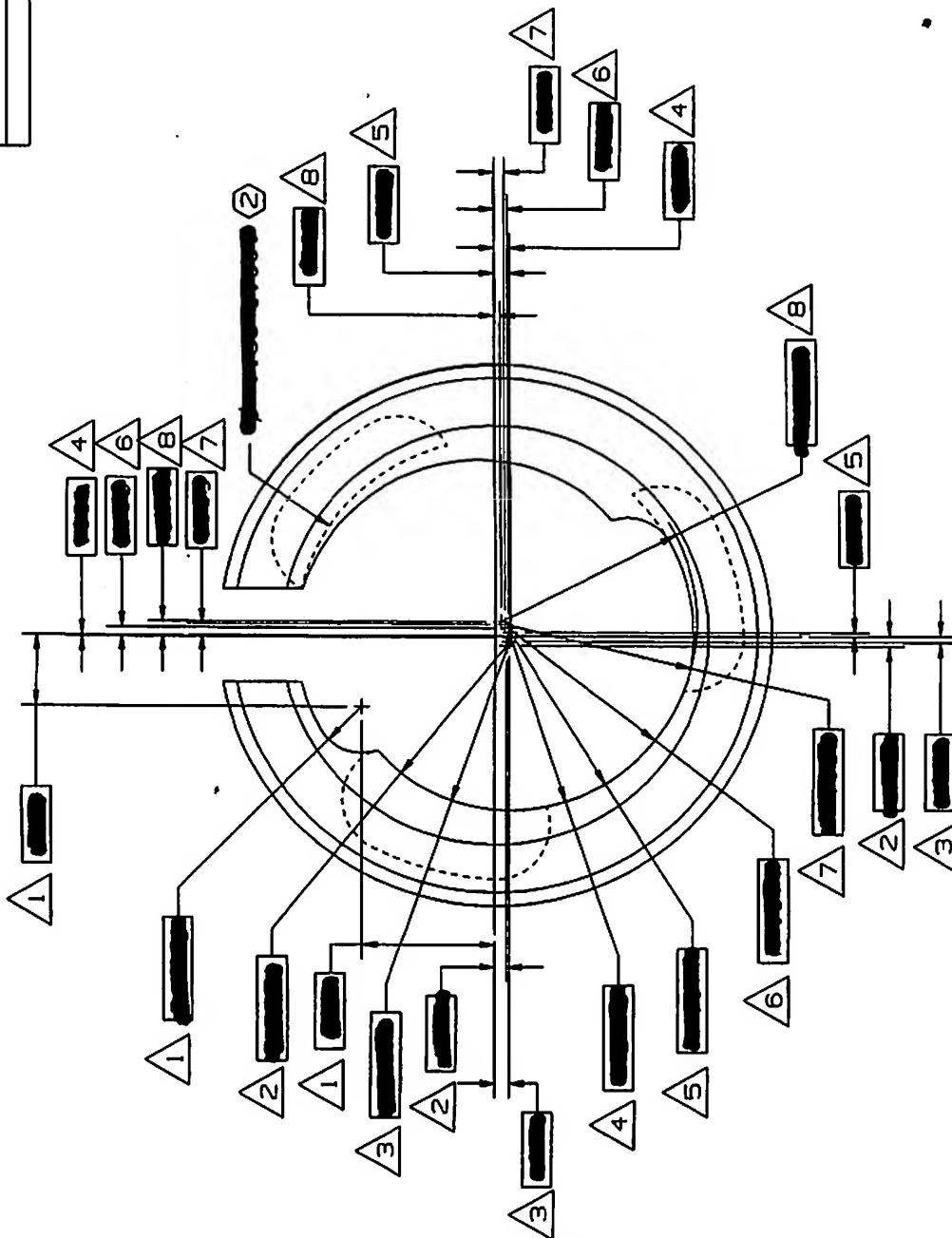


QTY	PART NUMBER	NOMENCLATURE OR DESCRIPTION	REMARKS	ITEM
LIST OF MATERIALS				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 FRACTIONS ± 1/64 ANGLES ± 1°		DRAYER		
		APPROVED		
		RESPONSIBLE ENG.		
		QUALITY/RELIABILITY		
		MANUFACTURING ENG.		
MATERIAL T16A14V Δ2				
FINISH ΔΔ3				
HARDNESS				
TITLE DOUBLE CAM WASHER				
FIRST USED ON		SIZE I	DWG NO.	REV.
		B	RD3770-1	A
		SCALE	SHEET 1 OF 1	

- 1 ALL MACHINED SURFACES TO HAVE A SURFACE FINISH OF $\sqrt{\text{ }}$ OR SMOOTHER UNLESS OTHERWISE SPECIFIED
- 2 MATERIAL TO MEET SPECS 065076.A00 AND ASTM F136
- 3 PASSIVATE AS PER SPEC 741000

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REVISIONS
SEE SHEET 1



NOTES:

- 1 NUMBERS IN TRIANGLES INDICATES WHICH RADIUS CORRESPONDS TO WHICH X AND Y DIMENSIONS
- 2 SYMBOL INDICATES INSPECTION LEVEL REF PROCEDURE 743001

PART NO.
RD3770-1

MANUFACTURING

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SIZE	DWG NO.	REV.
B	RD3770-1	A
SHEET 2 OF 2		

FILE NO. 8000000 REV. 0403